* /(// #4*

PCT09

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RAW SEQUENCE LISTING   DATE: 03/28/2002
PATENT APPLICATION: US/09/936,377   TIME: 10:55:51

          Input Set : **A:\seqlist.txt**
          Output Set: **N:\CRF3\03282002\I936377.raw**

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   4 <110> APPLICANT: DeFrenne, Catherine
   5         DelMelle, Christine
   6         Ruelle, Jean-Louis
   8 <120> TITLE OF INVENTION: Novel Compounds
  11 <130> FILE REFERENCE: BM45379
  13 <140> CURRENT APPLICATION NUMBER: 09/936,377
C--> 14 <141> CURRENT FILING DATE: 2002-02-26
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  28 <150> PRIOR APPLICATION NUMBER: 9910710.4
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  31 <150> PRIOR APPLICATION NUMBER: PCT/EP00/09155
  32 <151> PRIOR FILING DATE: 2000-03-07
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  40 <212> TYPE: DNA
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  46 aaaagccgtc cgcgcgccac atcagggctg ctgcacactt cgaccgcctc cgacaaaatc       180
  47 atcagcggcg acaccttgcg acaaaaagcc gtcaacttgg gcgatgcttt ggacggcgtg       240
  48 ccgggcattc acgcctcgca atacggcggc ggcgcgtccg ctcccgttat tcgcggtcaa       300
  49 acaggcagac ggattaaagt attgaaccat cacggcgaaa caggcgatat ggcggatttt       360
  50 tcgcccgatc acgccattat ggtagatacc gccttgtcgc aacaggtcga aatcctgcgc       420
  51 gggccggtta cgctcttgta cagctcgggc aatgtggcgg ggctggtcga tgttgccgat       480
  52 ggcaaaatcc ccgaaaaaat gcctgaaaac ggcgtatcgg cgaactcgg attgcgtttg         540
  53 agcagcggca atctggaaaa actcacgtcc ggcggcatca atatcggttt gggcaaaaac       600
  54 tttgtattgc acacggaagg gctgtaccgc aaatcggggg attacgccgt accgcgttac       660
  55 cgcaatctga aacgcctgcc cgacagccca cgccgattcg caaacgggca gcatcgggct       720
  56 gtcttgggtt ggcgaaaaag gttttatcgg cgtacgtaca gcgaccgtcg cgaccaatat       780
  57 ggtctgcctg cccacagcca cgaatacgat gattgccacg ccgacatcat ctggcaaaag       840
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61 tggaagcagc cattccccgg ttttgaagcc ctgcgcgtac acctgaaccg caacgactac    1080
62 caccacgacg aaaaagcagg cgatgcagtc gaaaacttt ttaacaacca aacgcaaaac     1140
63 gcccgcatcg agttgcgcca ccaacccata ggccgtctga aaggcagctg gggcgtgcaa     1200
64 tatttgggac aaaaatccag tgctttatct gccacatccg aagcggtcaa acaaccgatg     1260
65 ctgcttgaca ataaagtgca acattacagc tttttcggtg tagaacaggc aaactgggac    1320
66 aacttcacgc ttgaaggcgg cgtacgcgtg gaaaaacaaa aagcctccat ccgctacgac     1380
67 aaagcattga ttgatcggga aaactactac aagcagcccc tgcccgacct cggcgcgcac    1440
68 cgccaaaccg cccgctcgtt cgcactttcg ggcaactggt atttcacgcc gcaacacaaa     1500
69 ctcagcctga ccgcctccca tcaggaacgc ctgccgtcaa cgcaagagct gtacgcacac     1560
70 ggcaaacacg ttgccaccaa cacttttgaa gtcggcaaca aacacctgaa caaagagcgt     1620
71 tccaacaaca tcgaactcgc gttgggctac gaaggcgacc gctggcaata caatctggca    1680
72 ctctaccgca accgcttcgg caactacatt tacgcccaaa ccttaaacga cggacgcggc    1740
73 cccaaatcca tcgaagacga cagcgaaatg aagctcgtgc gctacaacca tccggtgcg    1800
74 gacttctacg gcgcggaagg cgaaatctac ttcaaaccga caccgcgcta ccgcatcggc    1860
75 gtttccggcg actatgtacg aggccgtctg aaaaacctgc cgtccctacc cggcagggaa     1920
76 gatgcctacg gcaaccgtcc tttcatcgcg caggacgacc aaaacgcccc tcgcgttccg    1980
77 gctgcgcgcc tcggcttcca cctgaaagcc tcgctgaccg accgcatcga tgccaatttg     2040
78 gactactacc gcgtgtttgc ccaaaacaaa ctcgcccgct acgaaacgcg cacgcccgga    2100
79 caccatatgc tcaacctcgg cgcaaactac cgccgcaata cgcgctatgg cgagtggaat    2160
80 tggtacgtca aagccgacaa cctgctcaac caatccgttt acgcccacag cagcttcctc     2220
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84 <211> LENGTH: 758
85 <212> TYPE: PRT
86 <213> ORGANISM: Neisseria meningitidis
88 <400> SEQUENCE: 2
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91 Asn Thr Pro Leu Leu Ala Gln Ala His Glu Thr Glu Gln Ser Val Gly
92              20                  25                  30
93 Leu Glu Thr Val Thr Val Val Gly Lys Ser Arg Pro Arg Ala Thr Ser
94          35                  40                  45
95 Gly Leu Leu His Thr Ser Thr Ala Ser Asp Lys Ile Ile Ser Gly Asp
96      50                  55                  60
97 Thr Leu Arg Gln Lys Ala Val Asn Leu Gly Asp Ala Leu Asp Gly Val
98 65                  70                  75                  80
99 Pro Gly Ile His Ala Ser Gln Tyr Gly Gly Gly Ala Ser Ala Pro Val
100              85                  90                  95
101 Ile Arg Gly Gln Thr Gly Arg Arg Ile Lys Val Leu Asn His His Gly
102              100                 105                 110
103 Glu Thr Gly Asp Met Ala Asp Phe Ser Pro Asp His Ala Ile Met Val
104          115                 120                 125
105 Asp Thr Ala Leu Ser Gln Gln Val Glu Ile Leu Arg Gly Pro Val Thr
106      130                 135                 140
107 Leu Leu Tyr Ser Ser Gly Asn Val Ala Gly Leu Val Asp Val Ala Asp
108 145                 150                 155                 160
109 Gly Lys Ile Pro Glu Lys Met Pro Glu Asn Gly Val Ser Gly Glu Leu
110              165                 170                 175
111 Gly Leu Arg Leu Ser Ser Gly Asn Leu Glu Lys Leu Thr Ser Gly Gly
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PATENT APPLICATION: US/09/936,377

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Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\03282002\I936377.raw**

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113 Ile Asn Ile Gly Leu Gly Lys Asn Phe Val Leu His Thr Glu Gly Leu
114         195                 200                 205
115 Tyr Arg Lys Ser Gly Asp Tyr Ala Val Pro Arg Tyr Arg Asn Leu Lys
116     210                 215                 220
117 Arg Leu Pro Asp Ser Pro Arg Arg Phe Ala Asn Gly Gln His Arg Ala
118 225                 230                 235                 240
119 Val Leu Gly Trp Arg Lys Arg Phe Tyr Arg Arg Thr Tyr Ser Asp Arg
120                 245                 250                 255
121 Arg Asp Gln Tyr Gly Leu Pro Ala His Ser His Glu Tyr Asp Asp Cys
122             260                 265                 270
123 His Ala Asp Ile Ile Trp Gln Lys Ser Leu Ile Asn Lys Arg Tyr Leu
124         275                 280                 285
125 Gln Leu Tyr Pro His Leu Leu Thr Glu Glu Asp Val Asp Tyr Asp Asn
126     290                 295                 300
127 Pro Gly Leu Ser Cys Gly Phe His Asp Asp Asp Ala His Ala His
128 305                 310                 315                 320
129 Ala His Asn Gly Lys Pro Trp Ile Asp Leu Arg Asn Lys Arg Tyr Glu
130                 325                 330                 335
131 Leu Arg Ala Glu Trp Lys Gln Pro Phe Pro Gly Phe Glu Ala Leu Arg
132             340                 345                 350
133 Val His Leu Asn Arg Asn Asp Tyr His His Asp Glu Lys Ala Gly Asp
134         355                 360                 365
135 Ala Val Glu Asn Phe Phe Asn Asn Gln Thr Gln Asn Ala Arg Ile Glu
136     370                 375                 380
137 Leu Arg His Gln Pro Ile Gly Arg Leu Lys Gly Ser Trp Gly Val Gln
138 385                 390                 395                 400
139 Tyr Leu Gly Gln Lys Ser Ser Ala Leu Ser Ala Thr Ser Glu Ala Val
140                 405                 410                 415
141 Lys Gln Pro Met Leu Leu Asp Asn Lys Val Gln His Tyr Ser Phe Phe
142             420                 425                 430
143 Gly Val Glu Gln Ala Asn Trp Asp Asn Phe Thr Leu Glu Gly Gly Val
144         435                 440                 445
145 Arg Val Glu Lys Gln Lys Ala Ser Ile Arg Tyr Asp Lys Ala Leu Ile
146     450                 455                 460
147 Asp Arg Glu Asn Tyr Tyr Lys Gln Pro Leu Pro Asp Leu Gly Ala His
148 465                 470                 475                 480
149 Arg Gln Thr Ala Arg Ser Phe Ala Leu Ser Gly Asn Trp Tyr Phe Thr
150             485                 490                 495
151 Pro Gln His Lys Leu Ser Leu Thr Ala Ser His Gln Glu Arg Leu Pro
152             500                 505                 510
153 Ser Thr Gln Glu Leu Tyr Ala His Gly Lys His Val Ala Thr Asn Thr
154         515                 520                 525
155 Phe Glu Val Gly Asn Lys His Leu Asn Lys Glu Arg Ser Asn Asn Ile
156     530                 535                 540
157 Glu Leu Ala Leu Gly Tyr Glu Gly Asp Arg Trp Gln Tyr Asn Leu Ala
158 545                 550                 555                 560
159 Leu Tyr Arg Asn Arg Phe Gly Asn Tyr Ile Tyr Ala Gln Thr Leu Asn
160             565                 570                 575
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161 Asp Gly Arg Gly Pro Lys Ser Ile Glu Asp Asp Ser Glu Met Lys Leu
162             580             585             590
163 Val Arg Tyr Asn Gln Ser Gly Ala Asp Phe Tyr Gly Ala Glu Gly Glu
164         595             600             605
165 Ile Tyr Phe Lys Pro Thr Pro Arg Tyr Arg Ile Gly Val Ser Gly Asp
166     610             615             620
167 Tyr Val Arg Gly Arg Leu Lys Asn Leu Pro Ser Leu Pro Gly Arg Glu
168 625             630             635             640
169 Asp Ala Tyr Gly Asn Arg Pro Phe Ile Ala Gln Asp Asp Gln Asn Ala
170             645             650             655
171 Pro Arg Val Pro Ala Ala Arg Leu Gly Phe His Leu Lys Ala Ser Leu
172         660             665             670
173 Thr Asp Arg Ile Asp Ala Asn Leu Asp Tyr Tyr Arg Val Phe Ala Gln
174         675             680             685
175 Asn Lys Leu Ala Arg Tyr Glu Thr Arg Thr Pro Gly His His Met Leu
176     690             695             700
177 Asn Leu Gly Ala Asn Tyr Arg Arg Asn Thr Arg Tyr Gly Glu Trp Asn
178 705             710             715             720
179 Trp Tyr Val Lys Ala Asp Asn Leu Leu Asn Gln Ser Val Tyr Ala His
180             725             730             735
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187 <211> LENGTH: 2112
188 <212> TYPE: DNA
189 <213> ORGANISM: Neisseria meningitidis
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194 gtggtcggac agtccgacac cagcgtactc aaaggctaca tcaactacga cgaagccgcc     180
195 gttacccgca acggacagct catcaaagaa acgccgcaaa ccatcgatac gctcaatatc     240
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197 atcgacgctg cctacgatat gcgcggcgaa agcattttcc tgcgcggttt tcaagccgat     360
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199 aacatcgagc gcgtggaaat cctgaaaggc ccgtcttccg tgctttacgg ccgcaccaac     480
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202 aacaaaaacg tcgccatccg tctcaccggc gaagtcgggc gcgccaattc gttccgcagc     660
203 ggcatagaca gcaaaaatgt catggtttca cccagcatta ccgtcaaact cgacaacggc     720
204 ttgaaatgga cggggcaata cacctacgac aatgtggagc gcacgcccga ccgcagtccg     780
205 accaagtccg tgtacgaccg cttcggactg ccttaccgca tggggttcgc ccaccggaac     840
206 gattttgtca aagacaagct gcaagtttgg cgttccgacc ttgaatacgc cttcaacgac     900
207 aaatggcgtg cccaatggca gctcgcccac cgcacggcgg cgcaggattt tgatcatttc     960
208 tatgcaggca gcgaaaatgg caacttaatc aaacgtaact acgcctggca gcagaccgac    1020
209 aacaaaaccc tgtcgtccaa cttcacgctc aacggcgact acaccatcgg ccgttttgaa    1080
210 aaccacctga ccgtaggcat ggattacagc cgcgaacacc gcaacccgac attgggtttc    1140
211 agacgcaact ttaccgcctc catcgatcca tacgaccgcg caagcaggcc ggcttcgggc    1200
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Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\03282002\I936377.raw**

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213 caaaacatct tctccgccac gcccgatttg aaattcgtcc tcggcggtcg ttacgacaag   1320
214 tacaccttta attccgaaaa caaactcacc ggcagcagcc gccagtacag cggacactcg   1380
215 ttcagcccca acatcggtgc agtgtggaac atcaatcccg tccacacact ttacgcctcg   1440
216 tataacaaag cgttcgcgcc ttatggcgga cgcggcggct atttgagcat caacacgtcg   1500
217 tcttccgccg tgttcaacgc cgaccccgag tacacccgcc aatacgaaac cggcgtcaaa   1560
218 agcagttggc tggacgaccg cctcagcacc acattgtccg cctaccaaat cgaacgcttc   1620
219 aatatccgct accgccccga cgagcaaaat gatccctaca cttgggcagt cggcggtaaa   1680
220 caccgttcgc gcggcgtgga attgtccgcc atcgggcaaa tcatccccaa aaaactctat   1740
221 ctgcgcggtt cgttgggcgt gatgcaggcg aaagtcgttg aagacaaaaa aaatcccgac   1800
222 cgagtgggca tccatttgaa taataccagc aacgttaccg gcaacctgtt tttccgttat   1860
223 acaccgaccg aaaacctcta cggcgaaatc ggcgtaaccg gtacaggcaa acgctacggt   1920
224 tacaactcaa gaaataaaga agtgactacg cttccaggct ttgcccgagt tgatgccatg   1980
225 ctcggctgga accataaaaa tgttaacgtt acctttgccg cagccaatct gttcaatcaa   2040
226 aaatattggc gttcggactc tatgccgggt aatccgcgcg gctatactgc ccgggtaaat   2100
227 taccgtttct ga                                                        2112
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230 <211> LENGTH: 703
231 <212> TYPE: PRT
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238             20                  25                  30
239 Thr Ala Thr Leu Pro Thr Val Ser Val Val Gly Gln Ser Asp Thr Ser
240             35                  40                  45
241 Val Leu Lys Gly Tyr Ile Asn Tyr Asp Glu Ala Ala Val Thr Arg Asn
242         50                  55                  60
243 Gly Gln Leu Ile Lys Glu Thr Pro Gln Thr Ile Asp Thr Leu Asn Ile
244 65                  70                  75                  80
245 Gln Lys Asn Lys Asn Tyr Gly Thr Asn Asp Leu Ser Ser Ile Leu Glu
246                 85                  90                  95
247 Gly Asn Ala Gly Ile Asp Ala Ala Tyr Asp Met Arg Gly Glu Ser Ile
248             100                 105                 110
249 Phe Leu Arg Gly Phe Gln Ala Asp Ala Ser Asp Ile Tyr Arg Asp Gly
250         115                 120                 125
251 Val Arg Glu Ser Gly Gln Val Arg Arg Ser Thr Ala Asn Ile Glu Arg
252     130                 135                 140
253 Val Glu Ile Leu Lys Gly Pro Ser Ser Val Leu Tyr Gly Arg Thr Asn
254 145                 150                 155                 160
255 Gly Gly Gly Val Ile Asn Met Val Ser Lys Tyr Ala Asn Phe Lys Gln
256             165                 170                 175
257 Ser Arg Asn Ile Gly Ala Val Tyr Gly Ser Trp Ala Asn Arg Ser Leu
258             180                 185                 190
259 Asn Met Asp Ile Asn Glu Val Leu Asn Lys Asn Val Ala Ile Arg Leu
260         195                 200                 205
261 Thr Gly Glu Val Gly Arg Ala Asn Ser Phe Arg Ser Gly Ile Asp Ser
262     210                 215                 220
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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date